

STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0043958** ; **AI 20047; PER20050001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

- I. **THE APPLICANT IS:** Village of Harrisonburg
Harrisonburg Wastewater Treatment Facility
P.O. Box 658
Harrisonburg, LA 71340
- II. **PREPARED BY:** Ronda Burtch
- DATE PREPARED:** March 14, 2007
- III. **PERMIT ACTION:** reissue LPDES permit LA0043958, AI 20047; PER20050001
- LPDES application received: October 7, 2005
- LPDES permit issued: April 1, 2000
LPDES permit expired: March 31, 2005

IV. **FACILITY INFORMATION:**

- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Village of Harrisonburg.
- B. The permit application does not indicate the receipt of industrial wastewater.
- C. The facility is located off Hwy. 124 approximately 0.94 miles south of the intersection of LA 8 and LA 124, thence 0.397 miles west of LA 124 along access road in Harrisonburg, Catahoula Parish.
- D. The treatment facility consists of one primary and three secondary aerated lagoons separated by curtain baffles. Disinfection is by chlorination.
- E. Outfall 001

Discharge Location: Latitude 31° 45' 20" North
Longitude 91° 50' 11" West

Description: treated sanitary wastewater

Design Capacity: 0.125 MGD

Type of Flow Measurement which the facility is currently using:

V-Notch Weir / Combination Totalizing Meter/Continuous Recorder

V. **RECEIVING WATERS:**

The discharge is into Stokes Creek, thence into Bushley Bayou, thence into the Little River in segment 081610 of the Ouachita River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 081610 of the Ouachita River Basin are as indicated in the table below^{1/}:

Overall Degree of Support for Segment 081610	Degree of Support of Each Use						
	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Partial	Full	Full	Not Supported	N/A	N/A	N/A	N/A

^{1/}The designated uses and degree of support for Segment 081610 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 081610 of the Ouachita River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Ms. Ronda Burtch
Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 081610, Old River, Catahoula Lake to Little River, is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDLs have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD ₅	10	10 mg/l	15 mg/l	Limits are set in accordance with the Ouachita River Basin Plan and the previous permit.
TSS	16	15 mg/l	23 mg/l	Limits are set in accordance with the Ouachita River Basin Plan and the previous permit.
Ammonia-Nitrogen	5	5 mg/l	10 mg/l	Limits are set in accordance with the Ouachita River Basin Plan and the previous permit.

Other Effluent Limitations:

1) Fecal Coliform

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) pH

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) Solids and Foam

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

X. PREVIOUS PERMITS:

LPDES Permit No. LA0043958: Issued: April 1, 2000
Expired: March 31, 2005

INTERIM EFFLUENT LIMITATIONS

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	1/week	Measure
BOD ₅	10 mg/l	15 mg/l	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

FINAL EFFLUENT LIMITATIONS

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Monitoring Requirements</u>	
	<u>Daily Avg.</u>	<u>Daily Max.</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Report	Report	Continuous	Recorder
CBOD ₅	10 mg/l	15 mg/l	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Ammonia-Nitrogen	5 mg/l	10 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) Inspections

A review of the files indicates the following inspections were performed during the period beginning March 9, 2005 and ending March 9, 2007 for this facility.

Date: November 29, 2005

Inspector: LDEQ

Findings and/or Violations:

1. The facility operates a one cell oxidation pond.
2. The pond and treatment site maintenance is satisfactory.
3. DMR review revealed excursion for months of Jan. to Oct 2005 for TSS, BOD, fecal.
4. The facility has a second non-permitted outfall that is used for an overflow drain.
5. The flow for the facility is standardized at 0.05 MGD; the facility should be monitoring flow continuously.
6. The facility has received a grant for a new WWTP. The new plant construction will begin approximately March of 2006 and be completed approximately August 2006. The new facility will be a modified aerated lagoon system.

B) Compliance and/or Administrative Orders

A review of the files indicates that there are no recent enforcement actions administered against this facility.

C) DMR Review

A review of the discharge monitoring reports for the period beginning January 1, 2005 through December 31, 2006 has revealed the following violations:

Month	Parameter	DMR Reported Value	Permit Limit
January 2005	BOD ₅ , Monthly Avg.	21.3 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	25 mg/l	15 mg/l
	TSS, Monthly Loading	16.74 mg/l	15 lbs/day
	TSS, Monthly Avg.	39.1 mg/l	15 mg/l
	TSS, Weekly Avg.	44 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	420 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	630 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
February 2005	BOD, Monthly Loading	10.95 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	26.25 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	30.5 mg/l	15 mg/l
	TSS, Monthly Loading	29.62 lbs/day	15 lbs/day
	TSS, Monthly Avg.	69.2 mg/l	15 mg/l
	TSS, Weekly Avg.	86.4 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	460 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	720 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
March 2005	BOD, Monthly Loading	18.98 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	49.5 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	54 mg/l	15 mg/l
	TSS, Monthly Loading	29.84 lbs/day	15 lbs/day
	TSS, Monthly Avg.	69.7 mg/l	15 mg/l
	TSS, Weekly Avg.	74.2 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	350 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	610 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
April 2005	BOD ₅ , Monthly Avg.	22 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	22.5 mg/l	15 mg/l
	TSS, Monthly Loading	44.56 lbs/day	15 lbs/day
	TSS, Monthly Avg.	104.1 mg/l	15 mg/l
	TSS, Weekly Avg.	105.8 mg/l	23 mg/l
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
May 2005	BOD, Monthly Loading	16.06 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	38.5 mg/l	10 mg/l

	BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	59 mg/l 40.45 lbs/day 94.5 mg/l 103.2 mg/l <320 col/100 ml 630 col/100 ml Not Reported Not Reported Not Reported	15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
June 2005	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	10.78 lbs/day 25.85 mg/l 29 mg/l 33.73 lbs/day 78.8 mg/l 87 mg/l 665 col/100 ml 720 col/100 ml Not Reported Not Reported Not Reported	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
July 2005	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	14.81 lbs/day 35.5 mg/l 36 mg/l 34.11 lbs/day 79.7 mg/l 80 mg/l 1,450 col/100 ml 1,500 col/100 ml Not Reported Not Reported Not Reported	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
August 2005	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	13.76 lbs/day 33 mg/l 39 mg/l 29.53 lbs/day 69 mg/l 78.2 mg/l 2,105 col/100 ml 3,700 col/100 ml Not Reported Not Reported Not Reported	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
September 2005	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	21.04 lbs/day 50.5 mg/l 72 mg/l 23.54 lbs/day 55 mg/l 61.2 mg/l 720 col/100 ml 1,100 col/100 ml Not Reported Not Reported Not Reported	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
October 2005	BOD ₅ , Monthly Avg.	21 mg/l	10 mg/l

	BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	23.3 mg/l 24.66 lbs/day 57.6 mg/l 81.4 mg/l <455 col/100 ml 900 col/100 ml Not Reported Not Reported Not Reported	15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
November 2005	BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	22 mg/l 22.7 mg/l 17.51 lbs/day 40.9 mg/l 44.8 mg/l 385 col/100 ml 520 col/100 ml Not Reported Not Reported Not Reported	10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
December 2005	BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Avg. TSS, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	16.7 mg/l 18.7 mg/l 20.5 mg/l 22.8 mg/l Not Reported Not Reported Not Reported	10 mg/l 15 mg/l 15 mg/l 23 mg/l 5 mg/l 10 mg/l 5 lbs/day
January 2006	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	10.7 lbs/day 25.65 mg/l 26 mg/l 30.45 lbs/day 71.15 mg/l 59 mg/l 2,500 col/100 ml 3,900 col/100 ml Not Reported Not Reported Not Reported	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
February 2006	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg. Fecal Coliform, Monthly Avg. Fecal Coliform, Weekly Avg. Ammonia-Nitrogen, Monthly Avg. Ammonia-Nitrogen, Weekly Avg. Ammonia-Nitrogen, Monthly Loading	15.85 lbs/day 38 mg/l 44 mg/l 29.32 lbs/day 68.5 mg/l 86.5 mg/l 915 col/100 ml 1,500 col/100 ml Not Reported Not Reported Not Reported	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l 200 col/100 ml 400 col/100 ml 5 mg/l 10 mg/l 5 lbs/day
March 2006	BOD, Monthly Loading BOD ₅ , Monthly Avg. BOD ₅ , Weekly Avg. TSS, Monthly Loading TSS, Monthly Avg. TSS, Weekly Avg.	13.49 lbs/day 32.35 mg/l 36.7 mg/l 21.61 lbs/day 50.5 mg/l 52.2 mg/l	10 lbs/day 10 mg/l 15 mg/l 15 lbs/day 15 mg/l 23 mg/l

	Fecal Coliform, Monthly Avg.	335 col/100 ml	200 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
April 2006	BOD, Monthly Loading	16.47 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	39.5 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	43 mg/l	15 mg/l
	TSS, Monthly Loading	25.77 lbs/day	15 lbs/day
	TSS, Monthly Avg.	60.2 mg/l	15 mg/l
	TSS, Weekly Avg.	73.6 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	10,700 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	12,900 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
May 2006	BOD, Monthly Loading	12.09 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	29 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	38.7 mg/l	15 mg/l
	TSS, Monthly Loading	27.09 lbs/day	15 lbs/day
	TSS, Monthly Avg.	63.3 mg/l	15 mg/l
	TSS, Weekly Avg.	66.6 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	16,100 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	7,200 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
June 2006	BOD, Monthly Loading	20.43 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	49 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	64 mg/l	15 mg/l
	TSS, Monthly Loading	43.48 lbs/day	15 lbs/day
	TSS, Monthly Avg.	101.6 mg/l	15 mg/l
	TSS, Weekly Avg.	117 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	30,000 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	48,000 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
July 2006	BOD, Monthly Loading	12.66 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	30.35 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	32 mg/l	15 mg/l
	TSS, Monthly Loading	33.38 lbs/day	15 lbs/day
	TSS, Monthly Avg.	78 mg/l	15 mg/l
	TSS, Weekly Avg.	121.2 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	1,915 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	3,200 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
August 2006	BOD, Monthly Loading	24.33 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	58.35 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	82 mg/l	15 mg/l
	TSS, Monthly Loading	22.73 lbs/day	15 lbs/day
	TSS, Monthly Avg.	53.1 mg/l	15 mg/l
	TSS, Weekly Avg.	61.2 mg/l	23 mg/l

	Fecal Coliform, Monthly Avg.	7,350 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	11,200 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
September 2006	BOD, Monthly Loading	17.31 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	41.5 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	45 mg/l	15 mg/l
	TSS, Monthly Loading	17.98 lbs/day	15 lbs/day
	TSS, Monthly Avg.	42 mg/l	15 mg/l
	TSS, Weekly Avg.	45 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	20,300 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	22,600 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
October 2006	BOD, Monthly Loading	21.54 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	51.65 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	62 mg/l	15 mg/l
	TSS, Monthly Loading	34.5 lbs/day	15 lbs/day
	TSS, Monthly Avg.	80.6 mg/l	15 mg/l
	TSS, Weekly Avg.	93.4 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	3,580 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	6,100 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day
November 2006	BOD ₅ , Monthly Avg.	21 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	22 mg/l	15 mg/l
	TSS, Monthly Loading	33.34 lbs/day	15 lbs/day
	TSS, Monthly Avg.	77.9 mg/l	15 mg/l
	TSS, Weekly Avg.	96 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	10,500 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	11,000 col/100 m	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
December 2006	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported I	5 lbs/day
	BOD, Monthly Loading	13.55 lbs/day	10 lbs/day
	BOD ₅ , Monthly Avg.	32.5 mg/l	10 mg/l
	BOD ₅ , Weekly Avg.	45 mg/l	15 mg/l
	TSS, Monthly Loading	15.67 lbs/day	15 lbs/day
	TSS, Monthly Avg.	36.6 mg/l	15 mg/l
	TSS, Weekly Avg.	36.8 mg/l	23 mg/l
	Fecal Coliform, Monthly Avg.	13,500 col/100 ml	200 col/100 ml
	Fecal Coliform, Weekly Avg.	18,000 col/100 ml	400 col/100 ml
	Ammonia-Nitrogen, Monthly Avg.	Not Reported	5 mg/l
	Ammonia-Nitrogen, Weekly Avg.	Not Reported	10 mg/l
	Ammonia-Nitrogen, Monthly Loading	Not Reported	5 lbs/day

XII. ADDITIONAL INFORMATION:

The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The DEQ also reserves the

right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 0.125 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ lb/gal} \times 0.125 \text{ MGD} \times 10 \text{ mg/l} = 10 \text{ lbs/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 0.10 and 0.50 MGD.

<u>Effluent Characteristics</u>	<u>Monitoring Requirements</u>	
	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow	Continuous	Recorder
CBOD ₅	2/month	Grab
Total Suspended Solids	2/month	Grab
Ammonia-Nitrogen	2/month	Grab
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

XIII TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

XIV REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Village of Harrisonburg, Harrisonburg Wastewater Treatment Facility, October 7, 2005.